

Sub B3
an injection port, including a pressure seal, situated to provide access to each one of the reaction vessels for the injection of liquids into said reaction vessels,

an evacuation port, including a pressure seal, situated to provide access to each one of the reaction vessels for the evacuation of fluids from said reaction vessel, and

injection and evacuation fittings formed to matingly engage said respective injection and evacuation ports and to thereby enable the delivery of fluids to the reaction vessels and the evacuation of fluids from said reaction vessels.--

--48. The reaction tool of claim 47 further comprising the plurality of reaction vessels and wherein at least one of the reaction vessels comprises:

an enclosed vessel having a first inlet and a second inlet disposed proximately to a first end thereof, and an outlet disposed proximately to a second end thereof;

a first stopcock disposed within the first inlet; and

a second stopcock disposed within the outlet, said at least one reaction vessel adapted for ready insertion and removal from the reaction vessel support.--

--49. The reaction tool of claim 48 wherein the reaction vessel further comprises:

means for preventing solid phase material from escaping from the reaction vessel via the outlet while allowing fluid to flow through the outlet.--

--50. The reaction vessel of claim 49 wherein said means comprises a first frit disposed within the vessel at the second end thereof so as to prevent solid phase materials from escaping from the vessel via the outlet.--

--51. The reaction vessel of claim 50 wherein the distance between the first frit and the outlet is less than the thickness of the first frit.--

--52. The reaction vessel of claim 48 further comprising means for preventing solid phase material from escaping from the reaction vessel via the first inlet, while allowing fluid to enter the vessel via the first inlet.--

--53. The reaction vessel of claim 50 further comprising a second frit disposed within the first inlet.--

--54. The reaction vessel of claim 48 wherein the reaction vessel comprises glass.--

--55. The reaction vessel of claim 54 wherein the glass is strengthened adjacent to said outlet.--

--56. The reaction vessel of claim 48 wherein the outlet extends at an angle from a central axis extending lengthwise through the reaction vessel.--

--57. The reaction vessel of claim 56 wherein said angle is less than or equal to ninety degrees.--

--58. The reaction vessel of claim 56 wherein the second inlet extends at an angle from a central axis extending lengthwise through the reaction vessel.--

--59. The reaction vessel of claim 48 wherein the second inlet comprises a ground upper section adapted to receive a stopper therein thereby sealing the second inlet.--

--60. The reaction vessel of claim 48 wherein the second inlet comprises a threaded end adapted to receive a threaded cap.--

--61. The reaction vessel of claim 60 wherein the threaded end or cap comprises Teflon.--

--62. The reaction vessel of claim 48 wherein said vessel is enclosed by an outer hollow shell comprising an outer wall and an inner wall defining a liquid tight space therebetween.--

--63. The reaction vessel of claim 62 further comprising a fluid inlet adapted to allow fluid to flow within said hollow shell, and a fluid outlet adapted to allow fluid to flow out of said hollow shell.--

--64. The reaction tool of claim 47 further comprising the plurality of reaction vessels and wherein at least one of the reaction vessels comprises:

an enclosed vessel having a first inlet and a second inlet disposed proximately to a first end thereof, and an outlet disposed proximately to a second end thereof:

a first stopcock disposed within the first inlet;

a second stopcock located within the outlet; and

an outer hollow shell surrounding the interior reaction volume of the reaction vessel, said at least one reaction vessel adapted for ready insertion and removal from the reaction vessel support and custom fitting said support.--

--65. The reaction tool of claim 64 wherein the reaction vessel further comprises: means for allowing fluid to flow through said outer hollow shell.--

Remarks

The present preliminary amendment adds new claims 47-65 directed to various aspects of combined systems of reaction tools and reaction vessels adopted for use with said reaction tools. These new claims should be grouped with the Group I claims.

The present paper responds to a Restriction Requirement mailed July 21, 1998 and requests reconsideration and withdrawal of the requirement. That requirement invited restriction to one of the inventive groups categorized by the Examiner (as clarified by telephone on 7/23/98) as follows: